

Shivom Paudel

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EDUCATION

University of Arizona

Bachelor of Science in Computer Science | GPA: 3.7/4.0

Tucson, AZ

Dec 2025

EXPERIENCE

Full-Stack Software Engineer Intern

May 2025 – Aug 2025

DriveTime

Tempe, AZ

- Improved internal service communication efficiency by transitioning Kubernetes traffic from external to internal URLs, reducing latency by 33% and increasing application performance across internal applications.
- Conducted API load testing and performance analysis using Datadog to ensure stability under increased traffic, validating system reliability up to 800 concurrent requests.
- Contributed to a cross-database migration for the vehicle valuation process by implementing new SQL procedures, feature flag logic, and integration tests, enabling scalable and fail-safe rollout of presale valuation features.
- Collaborated with engineers to identify and resolve a data inconsistency issue in the vehicle options decode flow, uncovering architectural inefficiencies and proposing a redesign that optimized Buy and Vehicle database usage.

Software Engineer Intern

Jun 2024 – Aug 2024

University of Arizona

Tucson, AZ

- Collaborated with a small team of students to develop a chatbot/web application for the University of Arizona's Eller College of Business.
- Developed a Python script to automate porting 5 years of Excel data to a MySQL database, improving data accessibility and consistency.
- Implemented a MySQL database schema to organize data related to 600+ students, professors, classes, surveys, and responses.
- Employed Node.js with connection pooling to connect to the MySQL database and handle requests and responses efficiently.

Frontend Engineer

Jan 2023 – Jun 2023

Hike Medical

Peoria, IL

- Led development of key projects, collaborated with a computer vision and full-stack engineer, and ensured project goals were met on time.
- Implemented responsive design, accessibility, and cross-browser compatibility, contributing to the growth of a health-care startup.
- Improved web app efficiency by 50% and reduced user time from 30 to 15 minutes by creating clear and accessible Intercom articles.
- Increased website search ranking from 5th to 1st by applying SEO best practices, resulting in a 75% increase in customer engagement and inquiries.

PROJECTS

AI-Powered Ingestion Pipeline

Python, OpenAI API, Jina Reader, Selenium, BeautifulSoup

- Built a scalable ingestion pipeline that processes blog URLs, index pages, local/Google Drive PDFs, and RSS feeds into enriched Markdown-based knowledgebase entries.
- Implemented AI-driven metadata generation using OpenAI and Jina Reader APIs to extract content type, authorship, and publication metadata.
- Engineered fallback strategies for complex sites (e.g., JavaScript-rendered blogs) using HTML parsing, GPT-based link inference, and Selenium automation.
- Optimized pipeline performance through parallel processing and token-based chunking to support future LLM training and retrieval-augmented generation (RAG) use cases.

AI-Powered Mock Interview Platform

React, Node.js, Supabase, OpenAI, Whisper, Tailwind

- Built a full-stack web app simulating real-time mock interviews from job descriptions using dynamic AI-generated questions and live feedback.
- Implemented voice-based interview responses with audio transcription via Whisper and LLM-based content/confidence feedback using OpenAI.
- Designed secure user authentication using Supabase and httpOnly cookies, storing interview sessions and generating chat-style feedback history.

TECHNICAL SKILLS

Languages: C, C++, C#, Java, Python, JavaScript, TypeScript, SQL

Web: HTML, CSS, React.js, Next.js, Node.js, Express, Tailwind CSS

Tools: Git, GitHub, Azure DevOps, JUnit, BlazeMeter, K6, LaunchDarkly, DataDog, Argo CD

Databases & IDEs: MySQL, Microsoft SQL Server, Mongo DB, Supabase, VS Code, Visual Studio, Eclipse, IntelliJ

Practices: Agile, Scrum